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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,350	12/12/2001	Scott A. Arvin	30566.184-US-01	8935

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EXAMINER

NGUYEN, KIMBINH T

ART UNIT	PAPER NUMBER
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2671

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/020,350	<b>Applicant(s)</b> ARVIN, SCOTT A.	
	<b>Examiner</b> Kimbinh T. Nguyen	<b>Art Unit</b> 2671	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 07/09/04.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/09/04 has been entered.
2. This action is responsive to amendment filed 07/09/04.
3. Claims 1-21 are pending in the application.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Anderson (6,046,749).

**Claim 1**, Anderson discloses modifications to a geometric object in a computer drawing program (AutoCAD application software; col. 1, lines 7-26; col. 2, lines 45-65; col. 3, lines 36-38), comprising: accepting, from a user, placement of a user-selected 3D geometric object (click operation and shift operation) in a computer drawing program (see abstract and col. 4, lines 15-40; fig. 1); simultaneously displaying a first oriented 3D

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grip glyph directly on the 3D geometric object (the first arrow in fig. 1) and a second oriented 3D grip glyph directly on the 3D geometric object (the second arrow in fig. 1 by shifting 3D object and then displayed on the computer screen; see abstract and col. 1, lines 44-62; col. 5, lines 32-65; fig. 1), wherein the first oriented 3D grip glyph and second oriented 3D grip glyph provide a direct visual indications of valid movement directions (the direct modification of an object in the 3D view with help of an input device: click and shifting movement) during direct manipulating 3D object using the grip glyphs (col. 4, lines 41-67; figs. 2 and 3).

**Claim 2**, Anderson discloses the valid movement directions are constraints on a permissible actions (shifting the original of the coordinate system assigned to the object within a global 3D coordinate system along a line defined by orientation of the selected axis of the assigned coordinate system within the global 3D coordinate system; col. 4, lines 28-35; col. 5, lines 47-53).

**Claim 3**, Anderson discloses the first oriented 3D glyph is a grip that defined position and an active area within a pointing device will snap to that position (activating a modification point on the X-axis and afterwards performing an appropriate mouse operation in the direction of the Y-axis; col. 4, lines 46-51; col. 7, lines 27-29).

**Claim 4**, Anderson discloses an orientation and direction of the first oriented 3D glyph indicate how cursor movement will be constrained (shifted to the appropriate orientation; col. 9, lines 4-9).

**Claim 5**, Anderson teaches displaying a second oriented 3D glyph on 3D object (fig. 1), wherein the second oriented 3D glyph is differentiable from the first oriented 3D glyph (translating or shifting from the origin; col. 4, lines 5-14; fig. 1).

**Claim 6**, Anderson discloses the direct manipulation occurs through user interaction with the computer drawing program (col. 3, lines 37-42; col. 4, lines 18-20).

**Claim 7**, Anderson discloses manipulating the 3D object based on direct manipulation of the first oriented 3D glyph in the valid movement direction (col. 4, lines 60-67; col. 6, lines 54-67).

**Claims 8-14**, the rationale provided in the rejection of claims 1-7 is incorporated herein. In addition, Chen teaches a computer system having a memory and a data storage device (a database; col. 3, lines 41-42; a program storage medium; col. 9, lines 14-18); a drawing program (the AutoCAD graphics application software or similar software programs; col. 3, lines 38-40).

**Claims 15-21**, the rationale provided in the rejection of claims 1-7 is incorporated herein. In addition, Anderson teaches an article of manufacture comprising a program storage medium readable by a computer to perform a method (col. 9, lines 14-19).

### ***Response to Arguments***

7. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

With respect to applicant's arguments, claim 1, Anderson teaches for direct manipulation of the 3D object that the user selected and placed before modification, the system uses AutoCAD graphics application software in the drawing, click operation and

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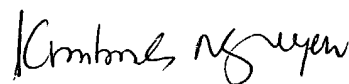
shifting operation are performed to provide placement of a user-selected and displayed the shifted 3D object on the computer screen (see the Office Action).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimbinh T. Nguyen whose telephone number is (703) 305-9683. The examiner can normally be reached on Monday to Thursday from 7:00 AM to 4:30 PM. The examiner can also be reached on alternate Friday from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached at (703) 305-9798. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 14, 2004



Kimbinh Nguyen

Patent Examiner AU 2671